

<b>RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33</b>				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW04  CLIMB TO 3500 DIRECT BISGE AND ON TRACK 025.53 TO SHEPE AND HOLD.  ADDITIONAL FLIGHT DATA: HOLD SW, RT, 025.53 INBOUND. CHART FAS OBST: 1030 ATCT 293137N/0982833W CHART A-635. DISTANCE TO THLD FROM 200 HATH: 0.45 NM. CHART VDP AT 1.35 MILES TO RW04* *LNAV ONLY. WAAS CHANNEL # 77613 REFERENCE PATH ID: W04A LTP HAE: 214.2 M							
HARDD (IF/IAF)		RESOC (FB)		032.70 / 4.85			3500									
RESOC		NADBE (FB)		032.73 / 3.15			2500									
NADBE (FAF)		RW04 (MAP) (FO)		032.75 / 5.20												
RW04 (MAP)		986 MSL		032.75												
986 MSL		BISGE (FB)														
BISGE		SHEPE (FO)		025.53 / 17.39			3500									
1. PT <u>      </u> SIDE OF COURSE <u>      </u> OUTBOUND <u>      </u> FT WITHIN <u>      </u> MILES OF <u>      </u> (IAF) 2. HOLD SW HARDD, RT, 032.70 INBOUND, 3500 FT. IN LIEU OF PT (IAF) 3. FAC: <u>032.75</u> FAF: <u>NADBE</u> DIST FAF TO MAP: <u>5.20</u> THLD: <u>5.20</u> 4. MIN. ALT: HARDD 3500, RESOC 3500, NADBE 2500 5. DIST TO THLD FROM OM: <u>      </u> MM: <u>      </u> IM: <u>      </u> 150 HAT: <u>      </u> 100 HAT: <u>      </u> GS ANT: <u>      </u> 6. MIN GS INCPT: <u>2500</u> GS ALT AT: <u>NADBE 2500</u> OM: <u>      </u> MM: <u>      </u> IM: <u>      </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>56.4</u> 34:1 IS CLEAR 8. MSA FROM: <u>      </u>										MAG VAR: 8E EPOCH YEAR: 1980						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	986	4000	200	986	4000	200	986	4000	200	986	4000	200				
LNAV/VNAV DA	1201	6000	415	1201	6000	415	1201	6000	415	1201	6000	415				
LNAV MDA	1280	4000	494	1280	4000	494	1280	6000	494	1280	6000	494				
CIRCLING	1300	1	491	1300	1	491	1320	1 1/2	511	1380	2	571				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -4C (25F) OR ABOVE 54C (130F). CHART NOTE: CIRCLING NA SOUTHWEST OF RWY 12R-30L. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 809		THRE: 786		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) Y RWY				
SAN ANTONIO, TX		AIRPORT NAME:		SAN ANTONIO INTL		RNAV		RNAV (GPS) Y RWY 4, AMDT 3 15 NOVEMBER 2012				AMDT: 2A				
												DATED 03/10/2011				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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NOTES, (CONT.):

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV. FOR INOPERATIVE MALS, INCREASE LNAV/VNAV  
 ALL CATS AND LNAV CATS C/D VISIBILITY TO 1 3/8.

**TAA**

	FROM	TO	ALT
1.	303/30 CW 123/30 (NOPT)	303/15 CW 123/15	4100
2.	303/15 CW 123/15	HARDD (IF/IAF) (FB)	3500
3.	123/30 CW 303/30	123/15 CW 303/15	4100
4.	123/15 CW 303/15	HARDD (IF/IAF) (FO)	3500

QUALITY  
 1  
 CHECKED

CITY AND STATE SAN ANTONIO, TX	ELEVATION: 809      THRE: 786 AIRPORT NAME: SAN ANTONIO INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 4, AMDT 3 15 NOVEMBER 2012	SUP: RNAV (GPS) Y RWY 3
				AMDT: 2A
				DATED: 03/10/2011

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSAT
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	293123.6420N
LTP/FTP LONGITUDE	0982811.6565W
LTP/FTP ELLIPSOIDAL HEIGHT	+02142
FPAP LATITUDE	293231.2700N
FPAP LONGITUDE	0982704.9400W
THRESHOLD CROSSING HEIGHT (TCH)	00056.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0160
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

DCBD96B8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+02396
FPAP ORTHOMETRIC HEIGHT	+02396

CITY AND STATE

SAN ANTONIO, TX

ELEVATION: 809

THRE: 786

AIRPORT NAME:

SAN ANTONIO INTL

FACILITY  
IDENTIFIER:

RNAV

PROCEDURE NO / AMDT NO / EFFECTIVE DATE:

RNAV (GPS) Y RWY 4, AMDT 3

15 NOVEMBER 2012

SUP: RNAV (GPS) Y RWY  
3

AMDT: 2A

DATED: 03/10/2011

## **RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**

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ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSATK4FR04-Y	AHARDD	010HARDDK4EA0EE	AR	HF		03270040	+	03500	18000		A	JS
SUSAP	KSATK4FR04-Y	R	010HARDDK4EA0E	I	IF			+	03500	18000		A	JS
SUSAP	KSATK4FR04-Y	R	011RESOCK4EA0E	S	051TF		03270049	+	03500			A	JS
SUSAP	KSATK4FR04-Y	R	020NADBEK4EA1E	F	051TF		03270032	+	02500			A	JS
SUSAP	KSATK4FR04-Y	R	020NADBEK4EA2WALPV			ALNAV/VNAV						JS	
SUSAP	KSATK4FR04-Y	R	030RW04	K4PG0GY	M	031TF	03280052		00842	-300		A	JS
SUSAP	KSATK4FR04-Y	R	040		0	M	0328	+	00986			A	JS
SUSAP	KSATK4FR04-Y	R	050BISGEK4EA0E		DF							A	JS
SUSAP	KSATK4FR04-Y	R	060SHEPEK4EA0EY		010TF		0255	+	03500			A	JS
SUSAP	KSATK4FR04-Y	R	070SHEPEK4EA0EE	R	HM		02550040	+	03500			A	JS

[illegible][illegible]

CITY AND STATE  
SAN ANTONIO, TX

ELEVATION: 809                      THRE: 786  
AIRPORT NAME:                      SAN ANTONIO INTL

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:  
**RNAV (GPS) Y RWY 4, AMDT 3**  
 15 NOVEMBER 2012

SUP: RNAV (GPS) Y RWY
AMDT: 3 2A
DATED: 03/10/2011

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	HARDD	HARDD	010	IAF	HF	R	FO		032.7 (040.7T)	004.0	AA 03500	
		HARDD	010	FACF	IF		FB				AA 03500	
		RESOC	011	SDF	TF		FB	0.5	032.7 (040.7T)	004.9	AA 03500	
		NADBE	020	FAF	TF		FB	0.5	032.7 (040.7T)	003.2	AA 02500	
		RW04	030	MAP	TF		FO	0.3	032.8 (040.8T)	005.2	AT 00842	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		032.8 (040.8T)		AA 00986	
	BISGE	050		DF		FB					
	SHEPE	060		TF		FO	1.0	025.5 (033.5T)		AA 03500	
	SHEPE	070		HM	R	FO		025.5 (033.5T)	004.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BISGE	N293630.80	W0982308.45	N2936.513	W09823.141
	HARDD	N292122.05	W0983803.63	N2921.368	W09838.061
	NADBE	N292726.51	W0983205.32	N2927.442	W09832.089
	RESOC	N292503.15	W0983426.39	N2925.053	W09834.440
	SHEPE	N295102.19	W0981205.65	N2951.037	W09812.094
	RW04	N293123.64	W0982811.66	N2931.394	W09828.194

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00786	56

QUALITY  
1  
CHECKED

CITY AND STATE <b>SAN ANTONIO, TX</b>	ELEVATION: <b>809</b>	THRE: <b>786</b>	FACILITY IDENTIFIER:  <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) Y RWY 4, AMDT 3</b> 15 NOVEMBER 2012	SUP: RNAV (GPS) Y RWY
	AIRPORT NAME: <b>SAN ANTONIO INTL</b>				AMDT: <b>3</b> <b>2A</b>
					DATED: <b>03/10/2011</b>